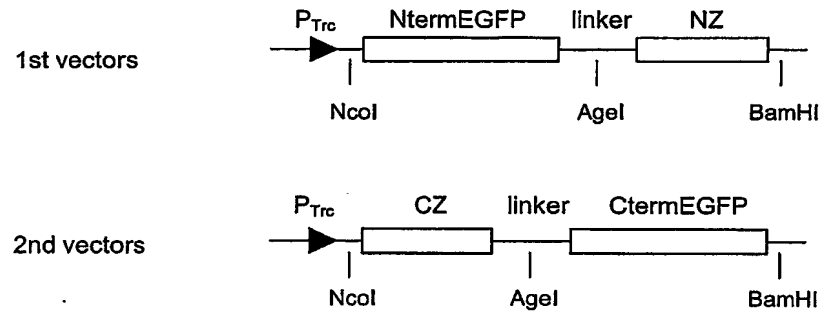


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Fig. 1

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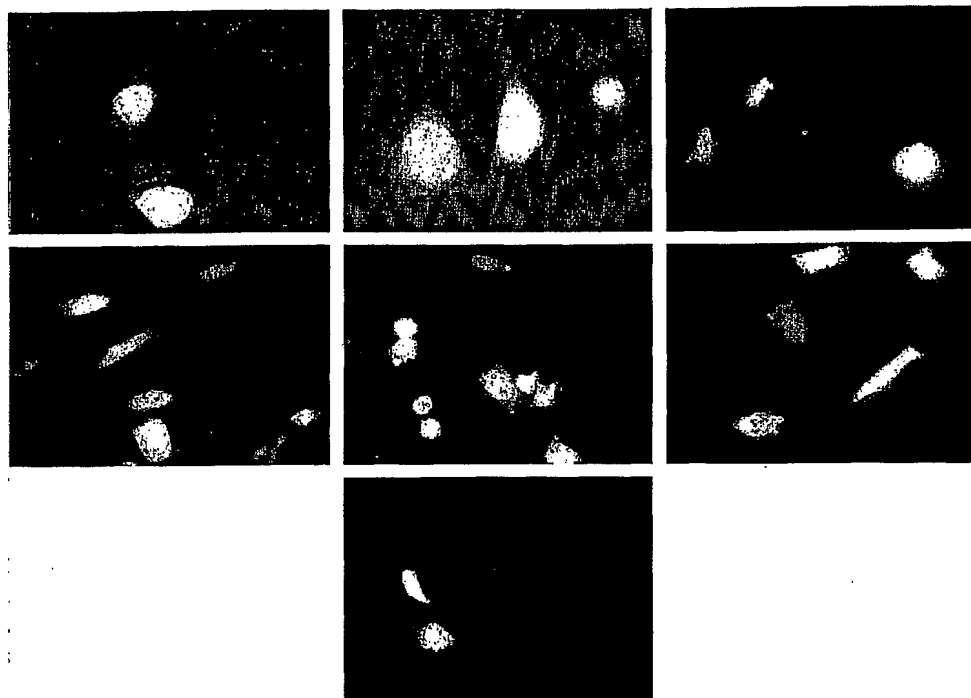
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Fig. 2

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Fig. 3

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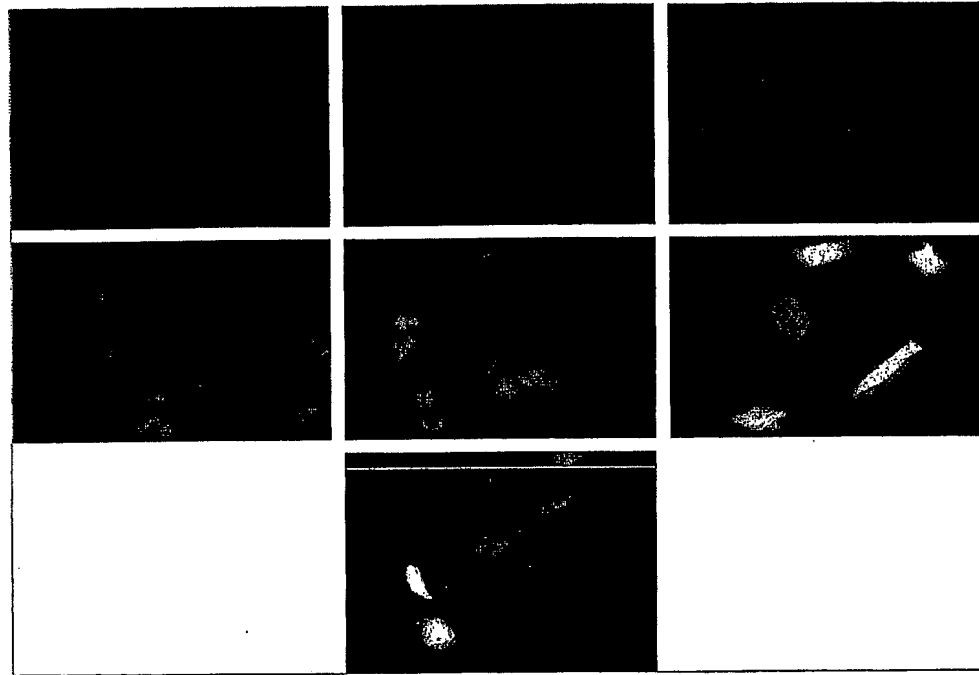


Fig. 4

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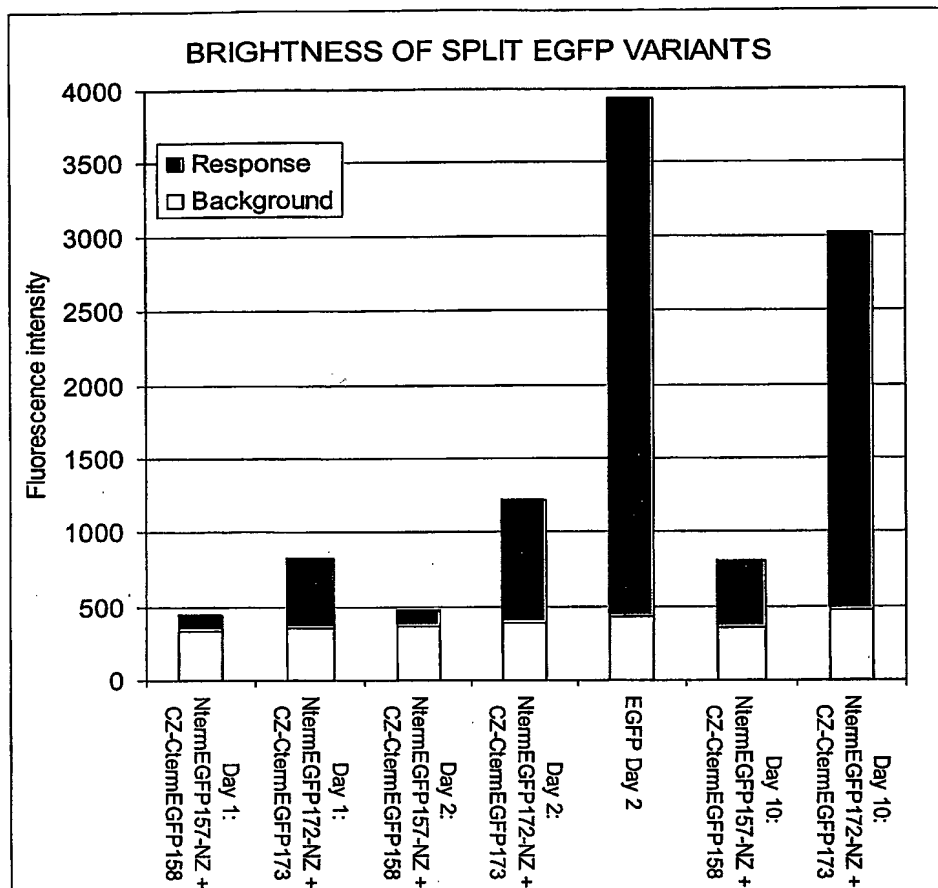
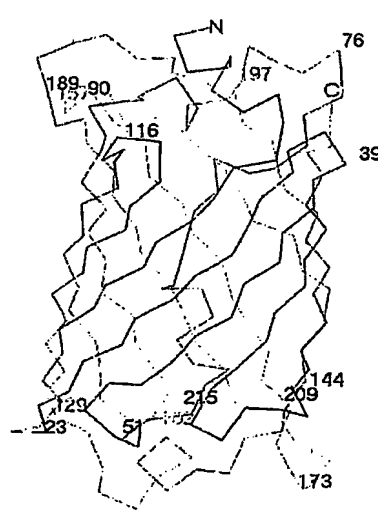
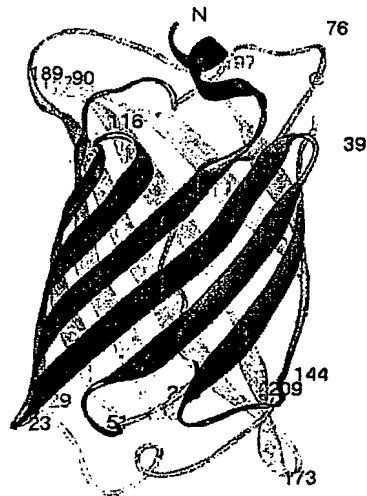
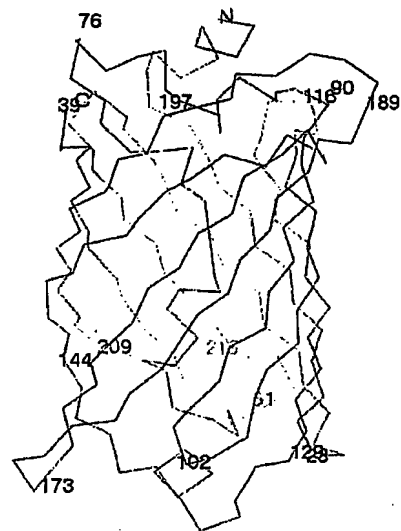
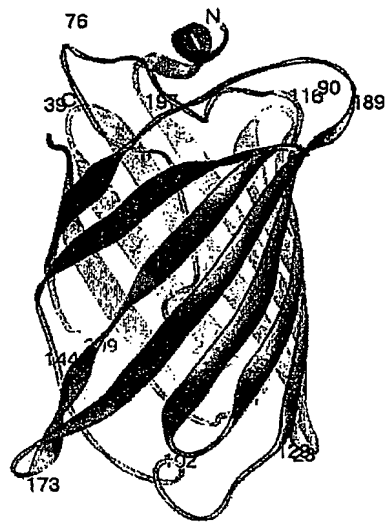


Fig. 5

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Fig. 6

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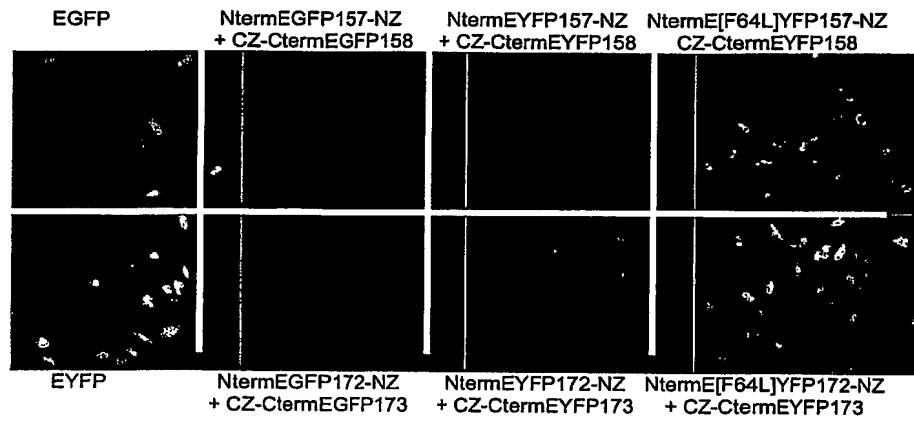
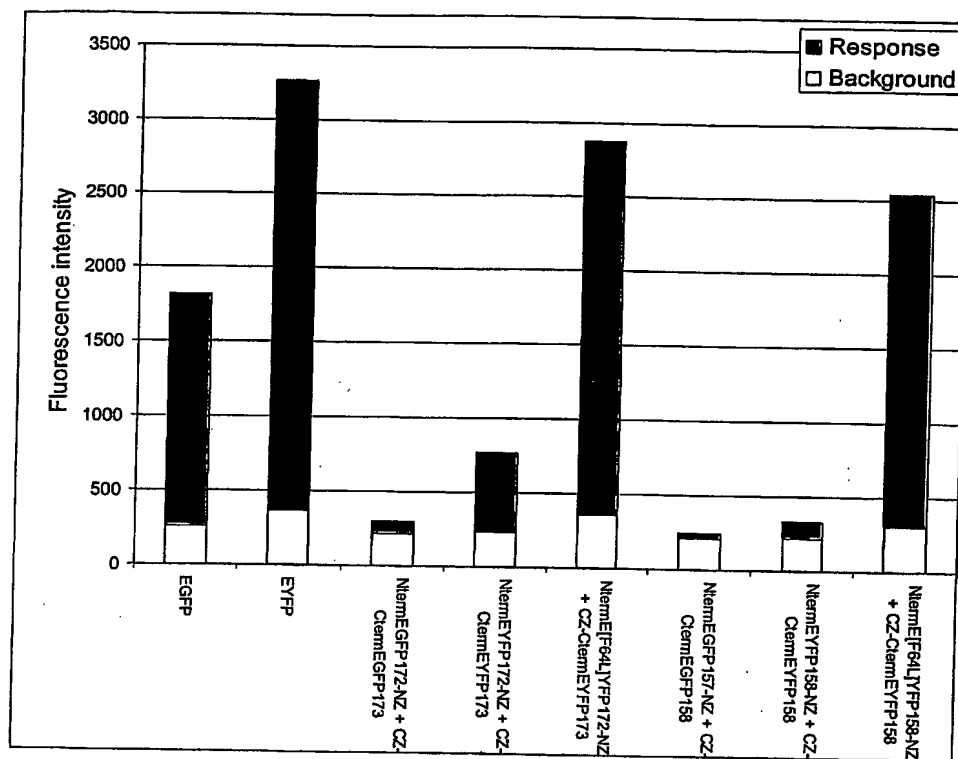


Fig. 7

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Fig. 8

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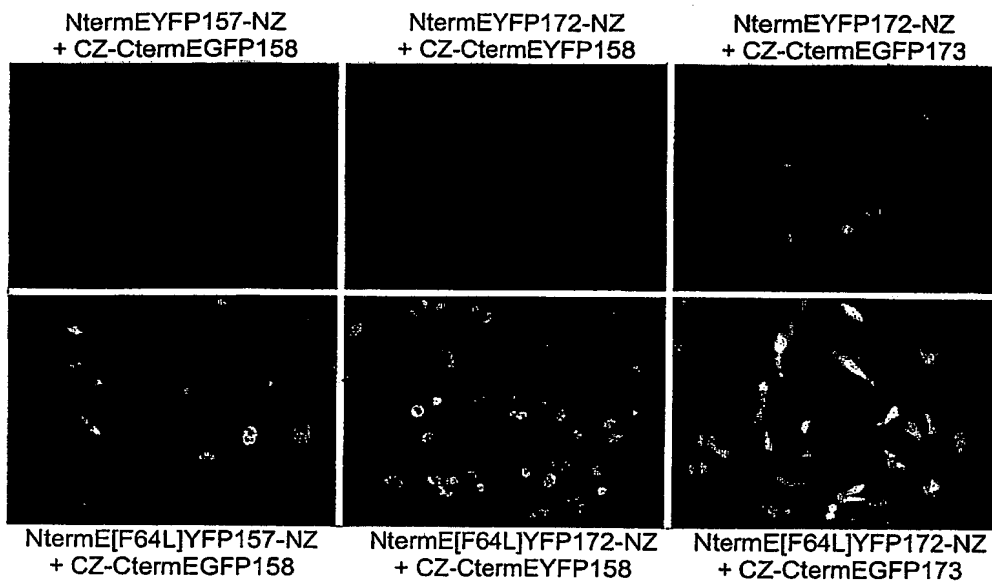
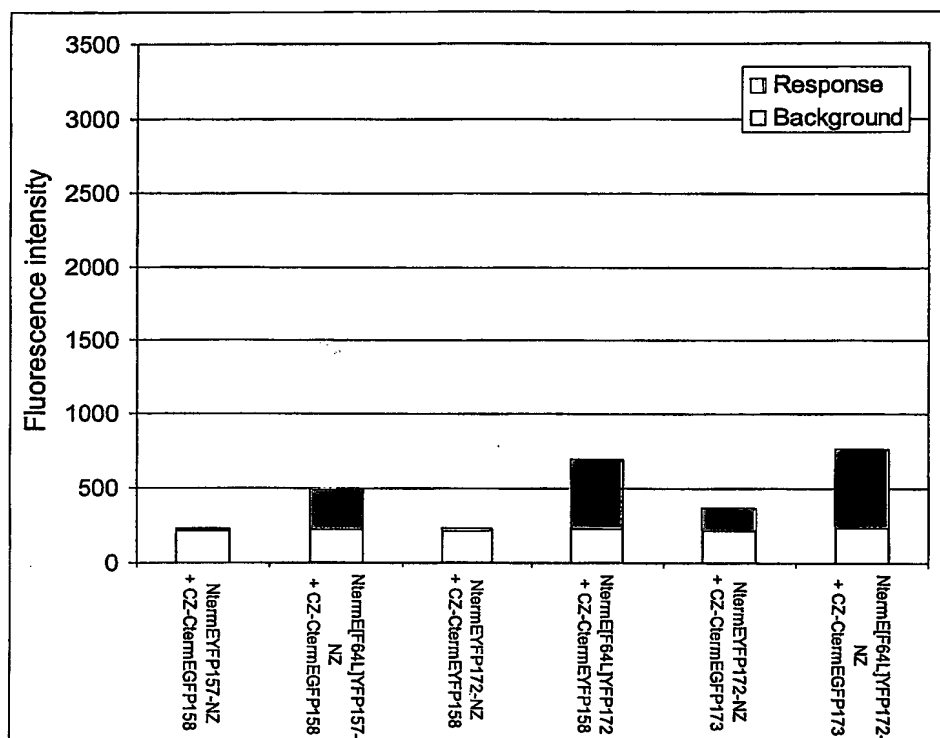




Fig. 9

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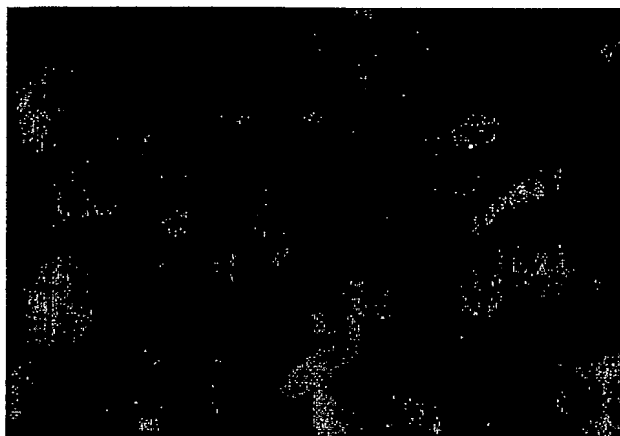
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Fig. 10

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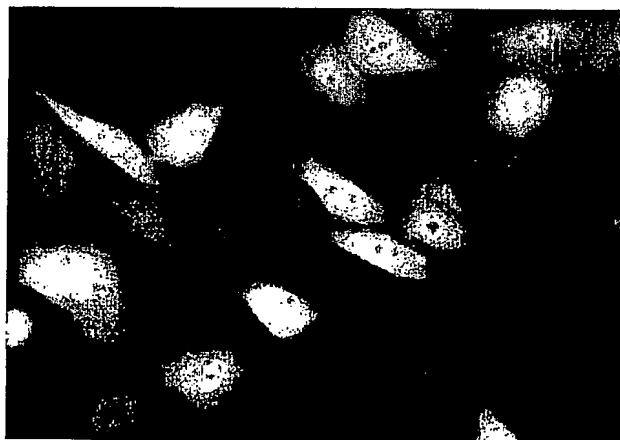
(a)



(b)



(c)

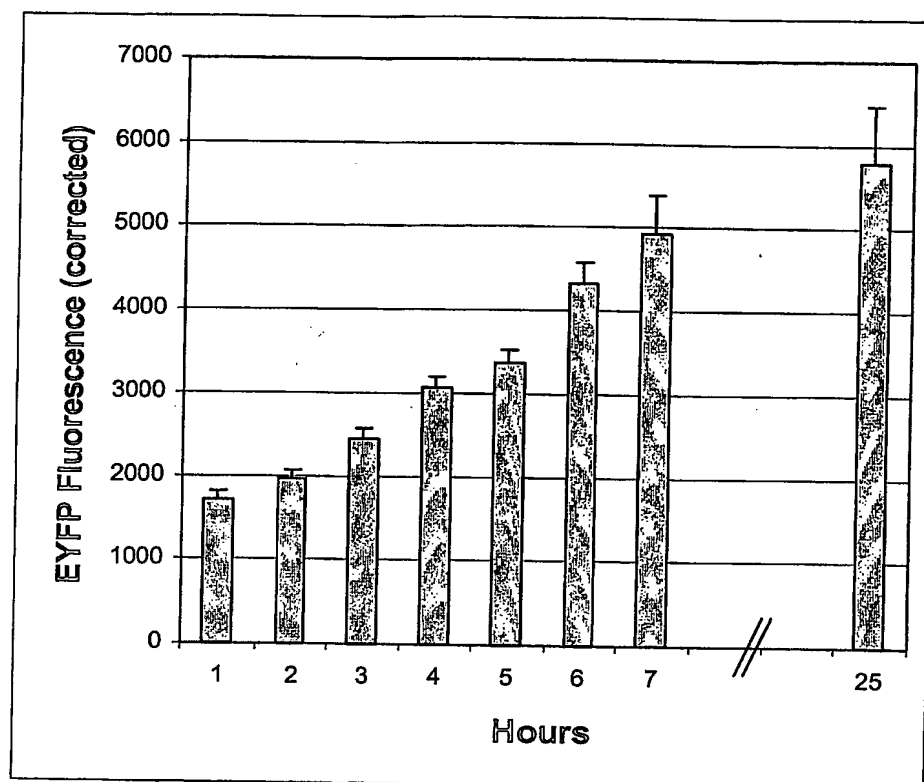


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Fig. 11

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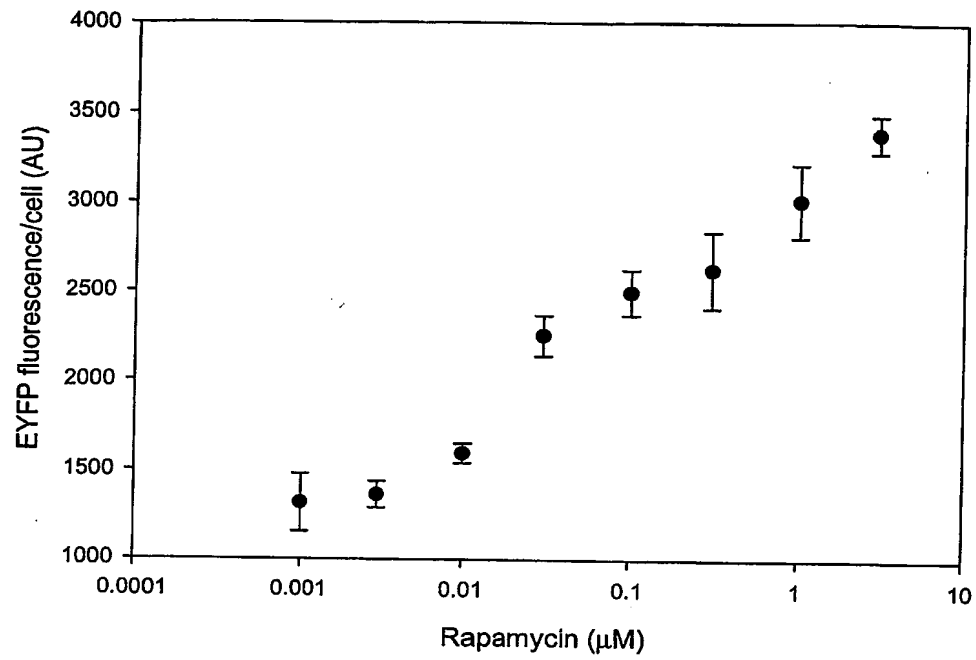


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Fig. 12

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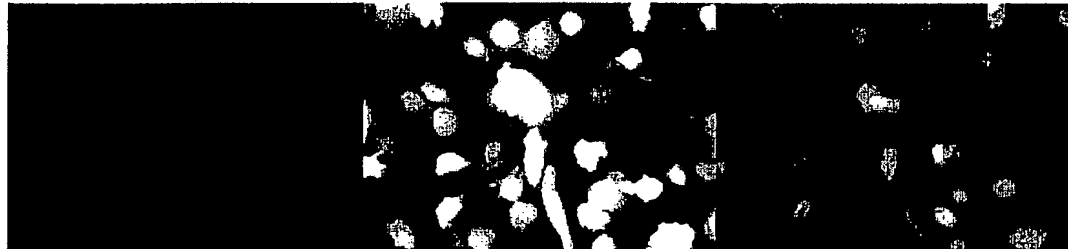


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Fig. 13a

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(a)

(ii)

(iii)

Fig. 13b



(i)

(ii)

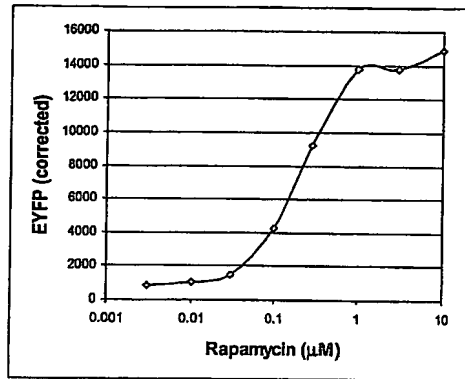
(iii)

WO 03/089627

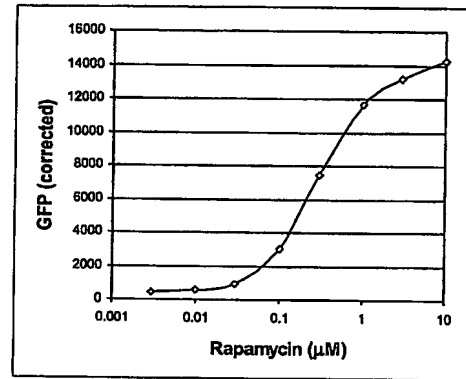
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Fig. 14a

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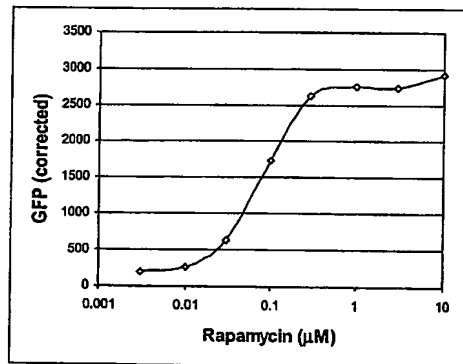


(i)

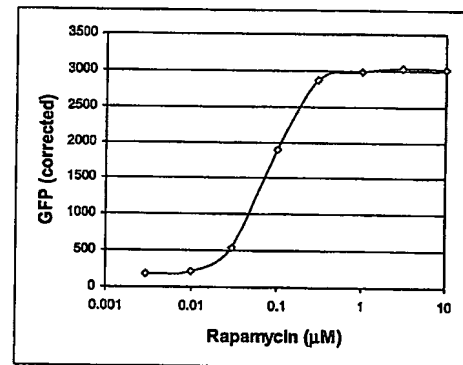


(ii)

Fig. 14b



(i)



(ii)

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Fig. 15a

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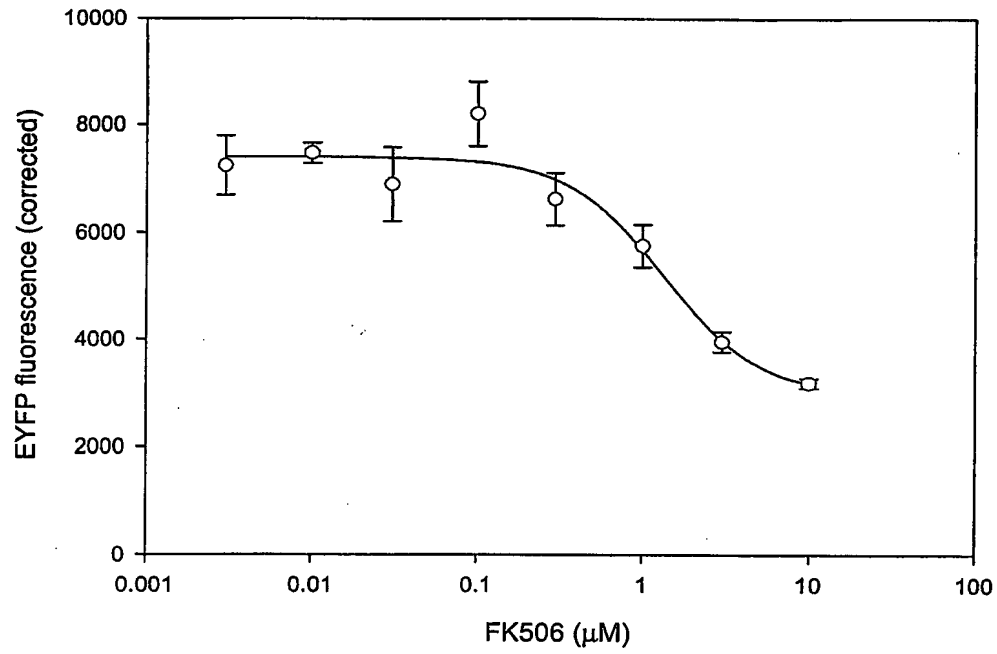


Fig. 15b

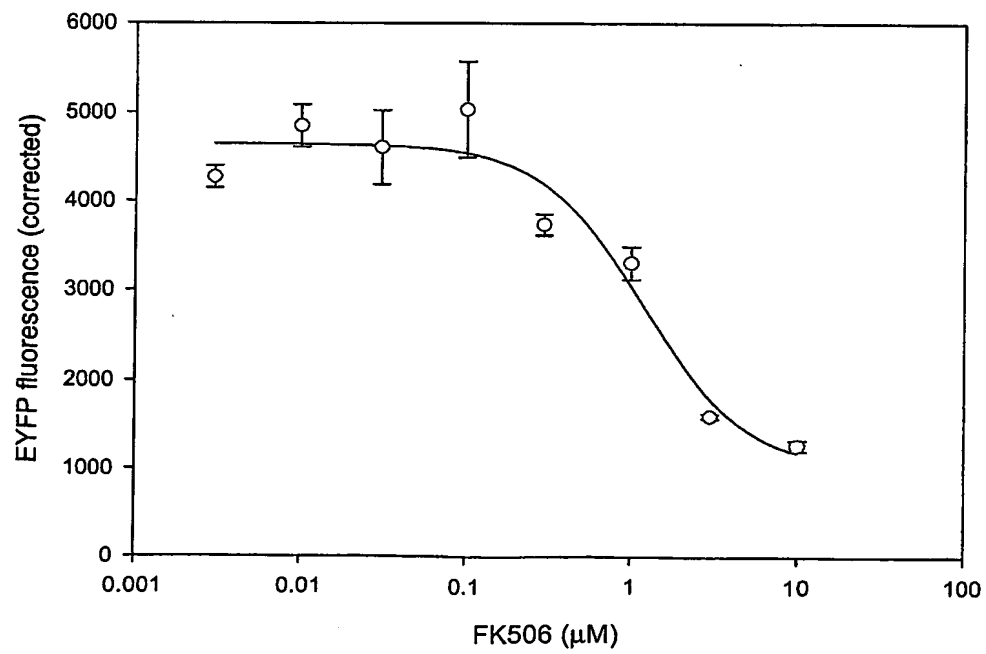


Fig. 16

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P42212 avGFP -----MSKGEELFTGVVPIVLVELDGDV 22  
 AY015996 rmGFP -----MSKQILKNTCLQEVMSYKVNLEGV 25  
 AF372525 rrGFP -----MD---LAKLGLKEVMPKINLEGLV 22  
 AF168419 dsRed -----MRSSKNVKEFMRFKVRMEGTV 22  
 AF322222 asCP562 -----MASFLKKTMPFKTTIEGTV 19  
 AF168422 asCP562 -----MAQSKHGLTKEMTKYRMEGCV 22  
 AF246709 asFP595 -----MASFLKKTMPFKTTIEGTV 19  
 AF322221 asFP499 -----MYPSTKETMRVQLSMEGSV 19  
 AF384683 mcGFP -----MSVIKPIBIEIKLRMQGVV 18  
 AF401282 mfGFP -----MSVIKPDMKIKLRMEGAV 18  
 AF168424 csFP484 MKCKFVFCLSFLVLAITNANIFLRNEADLEEKTLRIKALTMTGMVVKPDMDIKLRMEGAV 60  
 AF168420 dsFP483 -----MSCSKSVIKEEMLIDLHLEGT 22  
 AY015995 spGFP -----MNRNVLKNTGLKEIMSASAKASVEGIV 25  
 AF168423 zsFP538 -----MAHSHKHLKEEMTKYHMEGCV 22  
 AF168421 amFP486 -----MALSNKFIQDDMKMTYHMDGCV 22  
 AY013824 amGFPxm -----MSKGEELFTGIVPVLIELDGDV 22

P42212 avGFP NGHKSFSVSGEGEGDATYKGL--TLKFICTTG-KLPVWPPTLVTTFSYGVQCFSRYPDHMK 79  
 AY015996 rmGFP NNHVFTMEGCGKGNILFGNQ--LVQIRVTKGAPLPFAFDIVSPAPQYGNRTFTKYPNDIS 83  
 AF372525 rrGFP GDHAFSMEGEGEGNILEGTQ--EVKISVTKGAPLPFAFDIVSVAFSYGNRAYTGYPEEIS 80  
 AF168419 dsRED NGHEFEIEGEGEGRPYEGHN--TVKLKVTKGGLPFPFAWDILSPQFQYGSKYVVKHPADIP 80  
 AF322222 asCP562 NGHYPKCTGKGEKNPFEGTQ--EMKIEVIEGGPLPFAFHILSTSCMYGSKTFIKYVSGIP 77  
 AF168422 asCP562 DGHKFVITGEGIGYPFKGKQ--AINLCVVEGGPLPFAEDILSAAFNNGNRVFTTEYQDIV 80  
 AF246709 asFP595 NGHYPKCTGKGEKNPFEGTQ--EMKIEVIEGGPLPFAFHILSTSCMYGSKTFIKYVSGIP 77  
 AF322221 asFP499 NYHAFKCTGKGEKPYEGTQ--SLNITITEGGPLPFAFDILSHAFQYGIKVFAPKYPEIP 77  
 AF384683 mcGFP NGHKFVIKGEKGPFGTQ--TINLTVEKGAFLPFAFDILSTAFQYGNRVFTKYPDDIP 76  
 AF401282 mfGFP NGHKFVIEGDKGKPFEGTQ--SMDLTVEKGAFLPFAFDILTTFVFDYGNRVFAKYPQDIP 76  
 AF168424 csFP484 NGHAFVIEGEGEGKPYDGT--TLNLEVKEGAPLPFSYDILSNAFQYGNRALTTPYDDIA 118  
 AF168420 dsFP483 NGHYPFETKGGKGGQPNEGTN--TVTLEVTKGGLPFPFWHILCPQFQYGNKAFVHHPDNIH 80  
 AY015995 spGFP NNHVFSMEGFGKGNVLFNGQ--LMQIRVTKGGLPFPFAFDIVSIAPQYGNRTFTKYPDDIA 83  
 AF168423 zsFP538 NGHKFVITGEGIGYPFKGKQ--TINLCVIEGGPLPFSYDILSAGPKYGRIFITTEYQDIV 80  
 AF168421 amFP486 NGHYPFVKGEKNGKPYEGTQTSTFKVTMANGGFLAFSFDILSTVFKYGNRCFTAYPTSM 82  
 AY013824 amGFPxm HGHKFSVRGEGEGDADYKGL--EIKFICTTG-KLPVWPPTLVTTFSYGIQCFARYPEHMK 79

P42212 avGFP QHDFPKSAMPEGYVQERTIFFKDDGNKYKTRAEV--KFEG---DTLVNRIELKGIDFKEDG 134  
 AY015996 rmGFP --DYFIQSPFAGFMYERTLRYEDGGLVEIRSDI--NLIE---DKFVYRVYKGSNFPDDG 136  
 AF372525 rrGFP --DYFLQSPFEGFTYERNIRYQDGGTAIVKSDI--SLED---GKFIWVDFKAKDLRRMG 133  
 AF168419 dsRED --DYKLSFPFEGFKWERNVNFEDGGVVTVTQDS--SLQD---GCFIYKVKFVGNFPDSG 133  
 AF322222 asCP562 --DYFKQSPFEGFTWERTTYYEDGGFLTAHQDT--SLDG---DCLVYKVKILGNFPADG 130  
 AF168422 asCP562 --DYFKNSCPAGYTWDRSLFEDGAVCI CNADITVSVEEN---CMYHSEKFIYGNFPADG 135  
 AF246709 asFP595 --DYFKQSPFEGFTWERTTYYEDGGFLTAHQDT--SLDG---DCLVYKVKILGNFPADG 130  
 AF322221 asFP499 --DYFKQSLPFGFSWERTSTYEDGGVLSATQET--SLQG---DCIICKVKVLGNFPADG 130  
 AF384683 mcGFP --DYFKQTFPEGYSWERTIMAYEDQSICTATSDI--KMEG---DCPIEYIQFHGNFPADG 129  
 AF401282 mfGFP --DYFKQTFPEGYSWERTIMAYEDQSICTATSDI--TLMKGVDDCFVYKIRFDGNFPADG 132  
 AF168424 csFP484 --DYFKQSPFEGYSWERTIMAYEDQSICTATSDI--SMEE---DSFIYEIRFDGNFPADG 171  
 AF168420 dsFP483 --DYKLSFPFEGFTWERTSTYEDGGFLTAHQDT--SLTG---NCFYDIKFTGLNFPADG 133  
 AY015995 spGFP --DYFVQSPFAGFYERNLRFEDGAIIVDIRSDI--SLED---DKFHYKVEYRGNFPADG 136  
 AF168423 zsFP538 --DYFKNSCPAGYTWGRSLFEDGAVCI CNVDITVSVEEN---CIYHKSIFNGMFPADG 135  
 AF168421 amFP486 --DYFKQAFPDGMSYERTTYYEDGGVATASWEI--SLKGN---CPEHKSFTFHGNFPADG 135  
 AY013824 amGFPxm MNDFFKSAMPEGYIQUERTIFFQDDGKYKTRGEV--KFEG---DTLVNRIELKGMDFKEDG 134

P42212 avGFP NILGHKLEYNNSHNVIIMADKQKNGIKVNFKIRHNIEDGSVQLADHYQON--TPIGDGP 192  
 AY015996 rmGFP PVM-QKTILGIEPSFEAMYMN--NGVLVGEVILVYKLSNGKYYSCHMKTL---MKSXGVV 190  
 AF372525 rrGFP PVM-QQDIVGMQPSYESMYTN--VTSVIGECIIAFKLQTKGHFTYHMRV---YKSKKP 187  
 AF168419 dsRED PVM-QKKTGMWEASTERLYPR--DGVKLGKGIHKLKLDGGHYLVBFKSI---YMAKKP- 186  
 AF322222 asCP562 P-----RDAGQS- 137  
 AF168422 asCP562 PVM-KKMTDNWEPSCCKIIPVVKQGLKGDVSMYLLKDGGRRLRCQFDTV---YKAKSVP 191  
 AF246709 asFP595 PVM-QNKAGREWEPATEIYEV--DGVLRGQSLMALKCPGGRHLTCHLHTTYRSKKPASA- 186  
 AF322221 asFP499 PVM-QKKTGWEPSTETVPR--DGGLLRLDTPALMLADGGHLSCFMETT---YKSKKE- 183  
 AF384683 mcGFP PVM-QKKTGWEPSTETVPR--DGVLRGQSLMALKCPGGRHLTCHLHTTYRSKKPASA- 186  
 AF401282 mfGFP PVM-QKKTGWEPSTETVPR--DGVLRGQSLMALKCPGGRHLTCHLHTTYRSKKPASA- 186  
 AF168424 csFP484 PVM-QKKTGWEPSTETVPR--DGVLRGQSLMALKCPGGRHLTCHLHTTYRSKKPASA- 186  
 AF168420 dsFP483 PVM-QKKTGWEPSTETVPR--DGVLRGQSLMALKCPGGRHLTCHLHTTYRSKKPASA- 186  
 AY015995 spGFP PVM-QKKTGWEPSTETVPR--DGVLRGQSLMALKCPGGRHLTCHLHTTYRSKKPASA- 186  
 AF168423 zsFP538 PVM-QKKTGWEPSTETVPR--DGVLRGQSLMALKCPGGRHLTCHLHTTYRSKKPASA- 186  
 AF168421 amFP486 PVM-QKKTGWEPSTETVPR--DGVLRGQSLMALKCPGGRHLTCHLHTTYRSKKPASA- 186  
 AY013824 amGFPxm PVM-QKKTGWEPSTETVPR--DGVLRGQSLMALKCPGGRHLTCHLHTTYRSKKPASA- 186

P42212 avGFP VLLPDNHYLSTQSALSADPNEKRDHMLLEFVTAAGITHGMDLYK---- 238



Fig. 16 cont.

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AY015996	rmGFP	KEFPSYHFIQHRLEKTYV-EDGG-FVEQHETAIAQMTSIGKPLGSLHEWV	238
AF372525	rrGFP	ETMPLYHFIQHRLVKTNV-DTASGYVVQHETAIAAHSTIKKIEGSLP---	233
AF168419	dsRED	VQLPGYVVVDSKLDITSH-NEDYTIVEQYERTEGRHHLFL-----	225
AF322222	asCP562	RKMG----ASHRDTL-----	148
AF168422	asCP562	RKMPDWHFIQHKLTREDRSDAKNQKWHLTEHAIASGSALP-----	231
AF246709	asFP595	LKMPGFHFDHRIEIMEE-VEKGKCYKQYEAAGRYCDAAPSKLGHN---	232
AF322221	asFP499	VKLPELHFHHLRMEKLNH-SDDWKTVEQHESSVVASYS-QVPSKLGHN---	228
AF384683	mcGFP	VQLPDYHFVDHRIEILSH-DNDYNTVKLSEDAEARYSMLPSQAK-----	225
AF401282	mfGFP	VQLPDYHFVDHRIEILSH-DKDYNKVKLYEHAEA-HSGLPRQAK-----	227
AF168424	csFP484	VKLPDYHFVDHRIEILNH-DKDYNKVTLYENAVARYSLLPSQA-----	266
AF168420	dsFP483	LKMPGYHYVDTKLVIWNN-DKEFMKVEEHEIAVARHHPFYEPPKDK---	232
AY015995	spGFP	KEFPYHFIHHRLEKTYV-BEGS-FVEQHETAIAQLTTIGKPLGSLHEWV	238
AF168423	zsFP538	SKMPEWHFIQHKLLREDRSDAKNQKWLTEHAIAFPSALA-----	231
AF168421	amFP486	VTMPPNHVVEHRIARTDLDKGGNS-VQLTEHAVAHTSVVPF-----	229
AY013824	amGFPXM	VLIPINHYLSTQTAISKDRNETRDHMFLEFFSACGHTHGMDLYK----	238

Fig. 17

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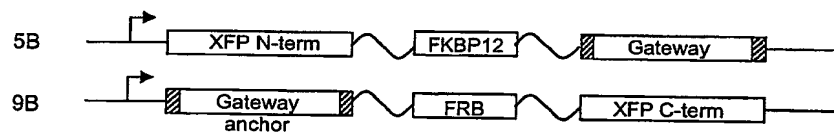
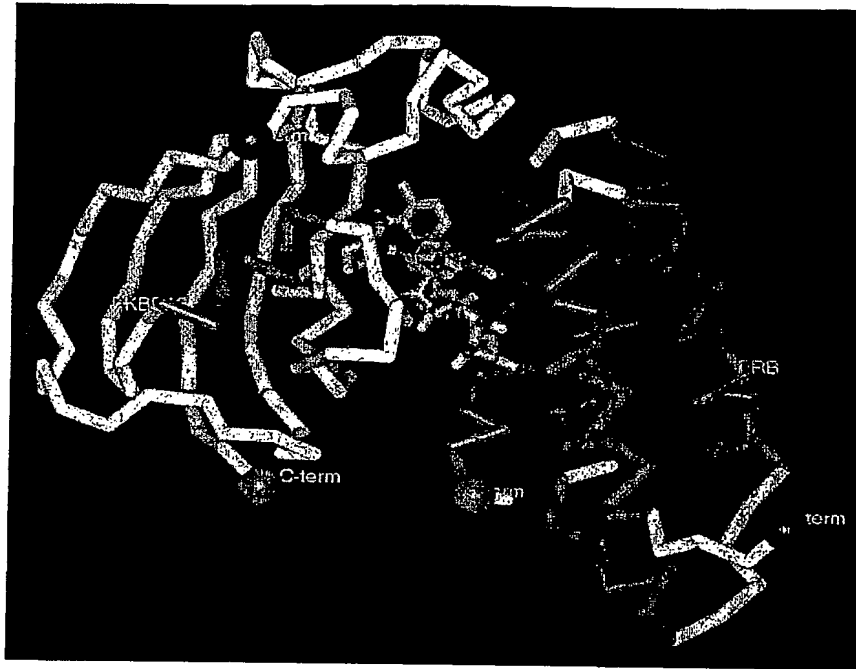
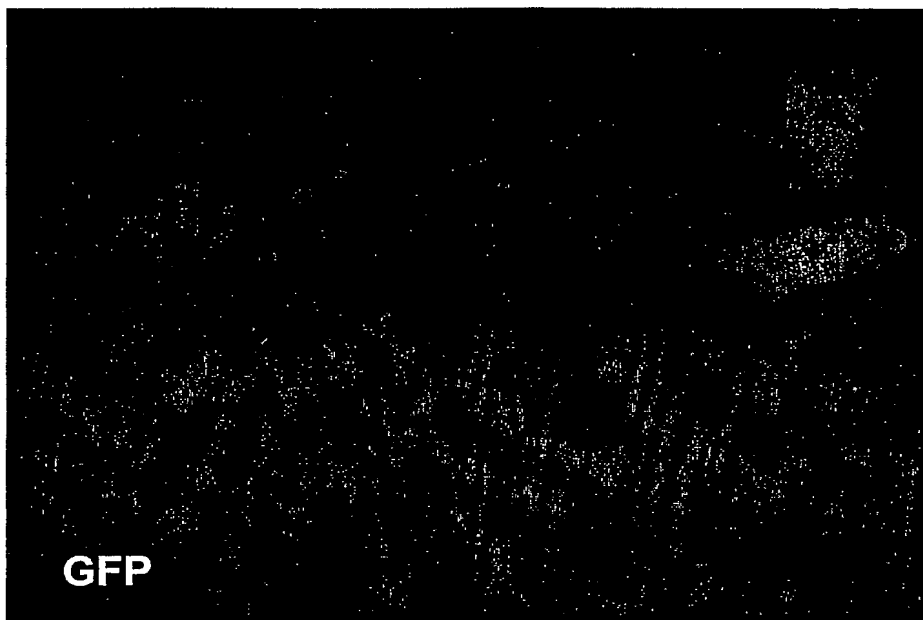


Fig. 18

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(A)



(B)

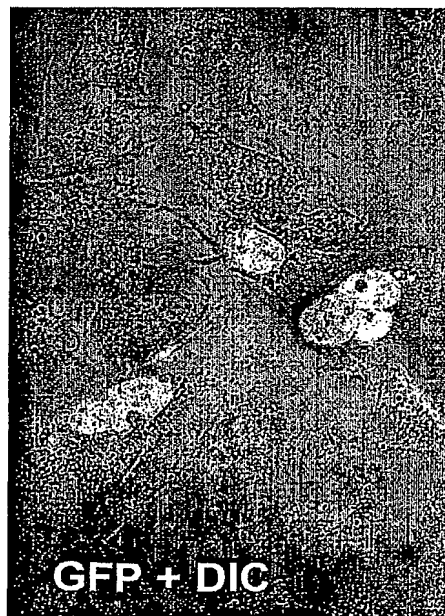
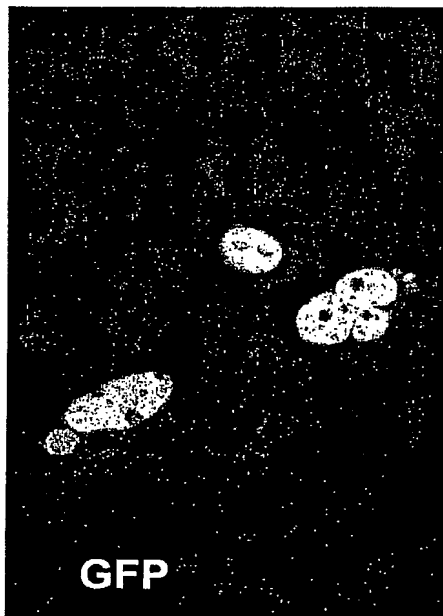
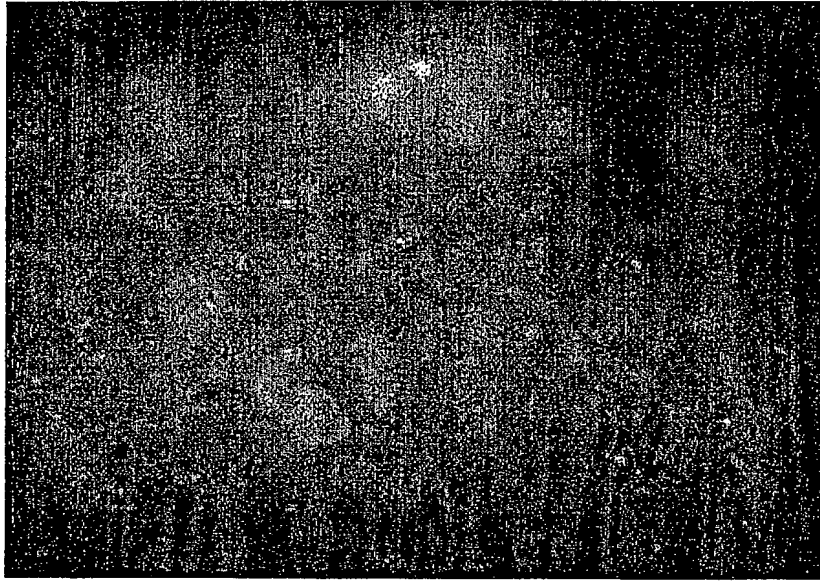


Fig. 19

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(A)



(B)



Fig. 20

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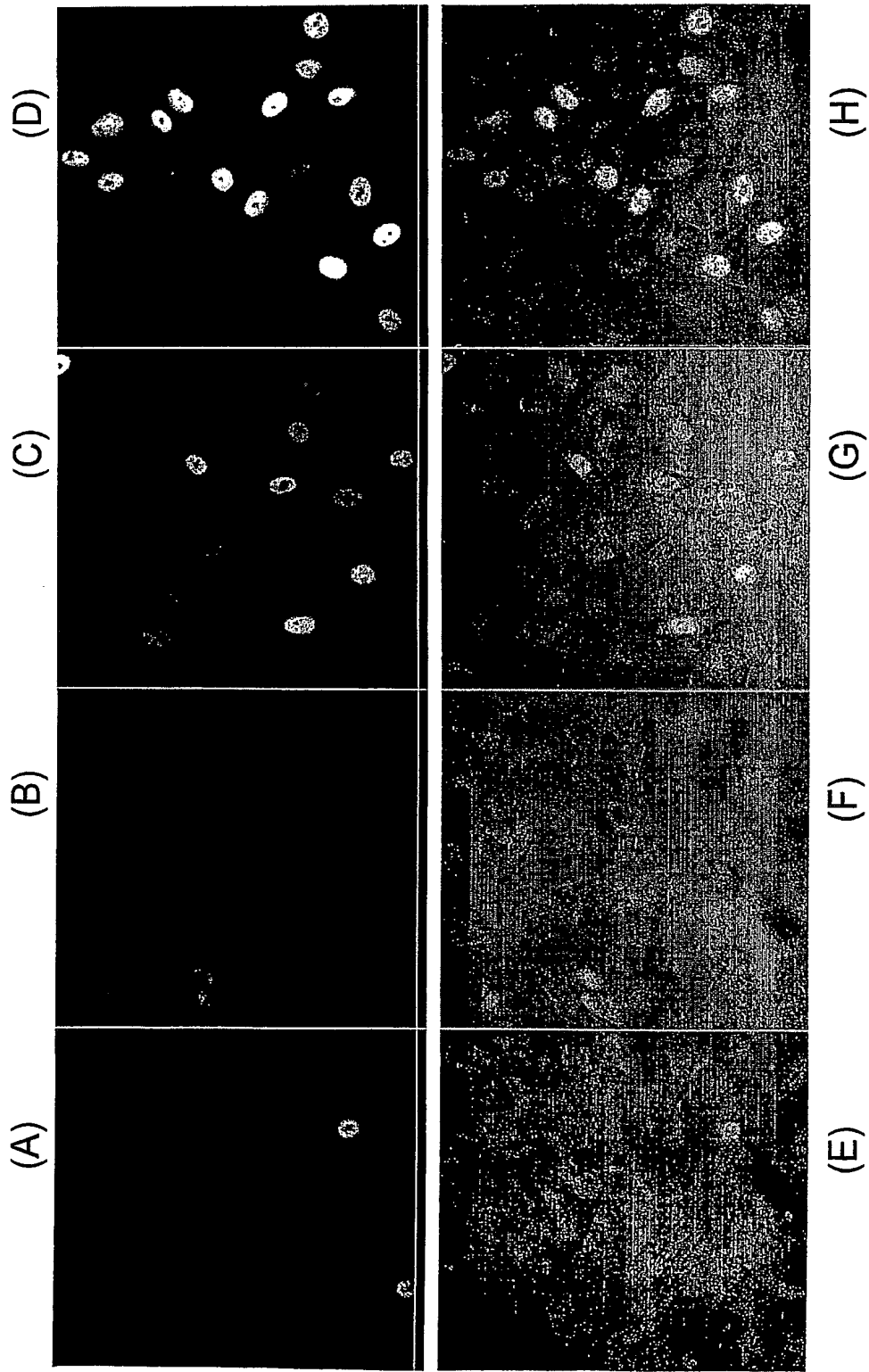


Fig. 21

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TDC, IDC and TIDC assay configurations

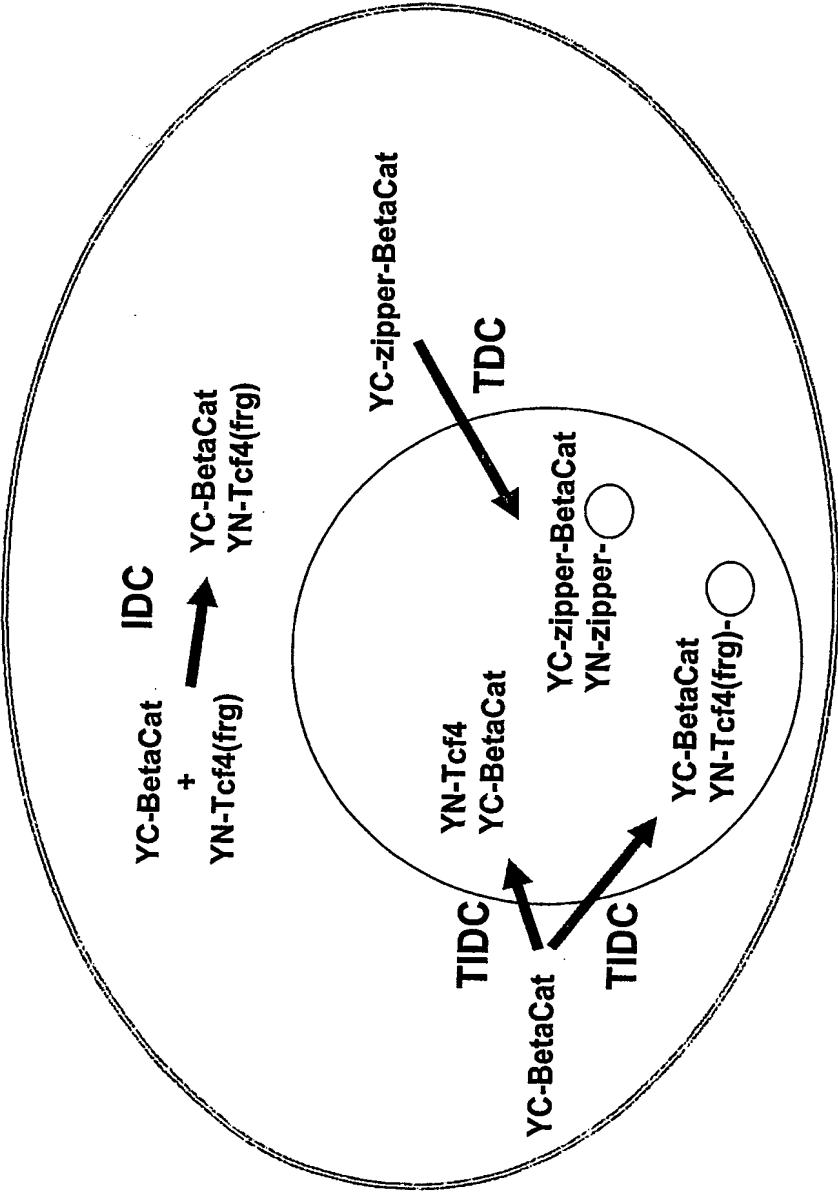
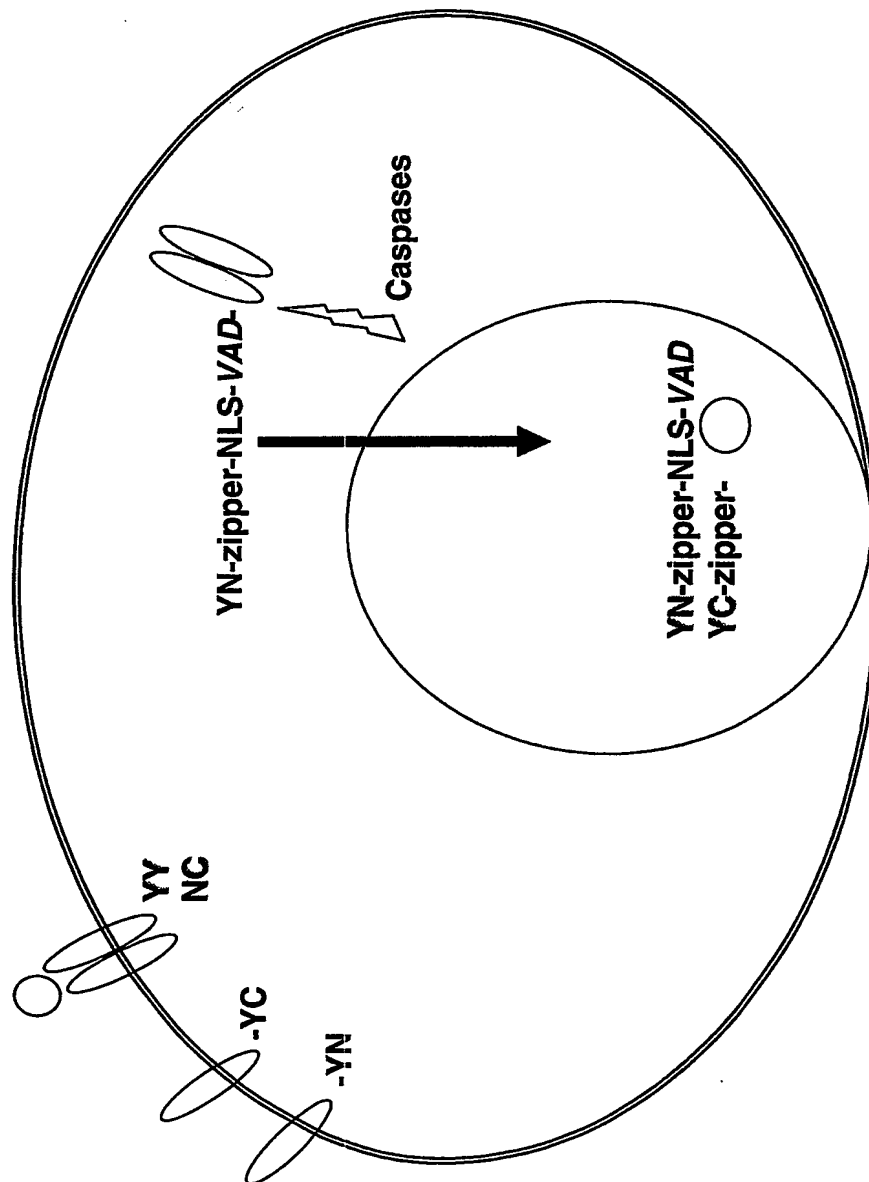


Fig. 22

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# Other assay configurations



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